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AN
     134:368377 HCA Full-text
TI
     Oil-based ink for electrostatic ink-jet printing
IN
     Kato, Eiichi
PA
     Fuji Photo Film Co., Ltd., Japan
     Jpn. Kokai Tokkyo Koho, 47 pp.
SO
     CODEN: JKXXAF
DT
     Patent
LA
     Japanese
FAN.CNT 1
     PATENT NO.
                     KIND DATE
                                           APPLICATION NO. DATE
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PΙ
                      A2
     JP 2001131455
                            20010515
                                           JP 2000-255846
                                                            20000825
PRAI JP 1999-238824
                       Α
                            19990825
     Title ink-jet ink, with good discharging stability as well as image
AB
     brightness and strength for multiple printing, is prepared by
     dispersing in a nonaq. solution having elec. resistivity of ≥109
     \Omega•cm and permittivity of \leq 3.5, with particles prepared from a
     solution containing (A) monofunctional monomers, which are soluble
     in a nonaq. solvent but the resulted copolymer of which not, (B)
     amino-containing monofunctional monomers (copolymerizable with A),
     (C) SO3 and/or SO2H-containing monofunctional monomers
     (copolymerizable with A), (D) monofunctional macromonomers having
     main chains composed of specific repeat units with a terminal
     polymerizable double-bond group at one end, and (E) a star-type
     copolymer.
IC
     ICM C09D011-00
     ICS B41J002-01; B41M005-00
CC
     42-12 (Coatings, Inks, and Related Products)
     Section cross-reference(s): 74
ST
     oil based electrostatic ink jet printing
IT
     Isoalkanes
     RL: NUU (Other use, unclassified); USES (Uses)
        (C7-10, Isopar E; preparation of oil-based ink for electrostatic
ink-jet
       printing)
IT
     Isoalkanes
     RL: NUU (Other use, unclassified); USES (Uses)
        (C9-12, Isopar G; preparation of oil-based ink for electrostatic
ink-jet
       printing)
IT
     Carbon black, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (Microlith Black CT; preparation of oil-based ink for
electrostatic ink-jet
       printing)
    Paraffin oils
IT
     RL: NUU (Other use, unclassified); USES (Uses)
        (Shellsol 71; preparation of oil-based ink for electrostatic ink-
jet
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printing) Naphthenic acids, uses IT RL: MOA (Modifier or additive use); USES (Uses) (cobalt salts; preparation of oil-based ink for electrostatic ink-jet printing) Printing (nonimpact) IT (electrostatic; preparation of oil-based ink for electrostatic ink-jet printing) IT Inks (jet-printing; preparation of oil-based ink for electrostatic ink-jet printing) IT Inks (oil-based; preparation of oil-based ink for electrostatic inkjet printing) IT Dispersing agents (preparation of oil-based ink for electrostatic ink-jet printing) IT Polymers, uses RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (star-branched; preparation of oil-based ink for electrostatic ink-jet printing) IT 150551-83-0 150551-89-6 150551-92-1 150551-93-2 150551-97-6 154340-06-4 155293-25-7 159967-38-1 159967-39-2 159967-40-5 159967-41-6 159967-42-7 159967-43-8 159967-44-9 RL: CAT (Catalyst use); USES (Uses) (initiator; preparation of oil-based ink for electrostatic inkjet printing) 138005-15-9DP, 4,4'-azobis[4-cyanovaleric acid]-initiated, 2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl ester 139104-87-3P 139104-90-8P 139105-03-6P 139105-08-1P 139105-12-7P 141414-99-5P 141415-72-7P 214835-07-1P 215877-54-6P 215877-61-5P 217076-83-0P 333362-05-3P 339334-13-3P 339334-16-6P 339334-20-2P RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (macromer; preparation of oil-based ink for electrostatic ink-jet printing) IT 339275-35-3P, 2-(N,N-Diethylamino)ethyl crotonate-octadecyl methacrylate-4-sulfobutyl crotonate-vinyl acetate graft copolymer 339275-36-4P, Dodecyl methacrylate-methyl acrylate-2-(N,Ndimethylamino)ethyl methacrylate-methyl methacrylate-3-sulfopropyl

339275-37-5P, Methyl acrylate-2-(N,N-

methacrylate graft copolymer

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dimethylamino)ethyl methacrylate-methyl methacrylate-3-sulfopropyl
     methacrylate-tridecyl methacrylate graft copolymer
                                                          339275-38-6P,
     Hexadecyl methacrylate-methyl acrylate-2-(N,N-dimethylamino)ethyl
     methacrylate-methyl methacrylate-3-sulfopropyl methacrylate graft
                 339275-39-7P, Methyl acrylate-2-(N,N-dimethylamino)ethyl
     methacrylate-methyl methacrylate-octadecyl acrylate-3-sulfopropyl
     methacrylate graft copolymer
                                   339275-40-0P
                                                   339275-41-1P
                                                                  339275-
43-3P
     339275-44-4P
                                                  339275-48-8P
                    339275-46-6P
                                   339275-47-7P
                                                                 339275-
49-9P
     339275-50-2P
                    339275-51-3P
                                   339275-52-4P
                                                  339275-53-5P
                                                                 339275-
55-7P
                   339275-59-1P
     339275-57-9P
                                   339275-61-5P
     RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP
     (Properties); TEM (Technical or engineered material use); PREP
     (Preparation); USES (Uses)
        (preparation of oil-based ink for electrostatic ink-jet printing)
     2373-23-1
                 7440-67-7D, Zirconium, dioctylsulfosuccinic acid
complex, uses
     25719-52-2, Polydodecylmethacrylate
     RL: MOA (Modifier or additive use); USES (Uses)
        (preparation of oil-based ink for electrostatic ink-jet printing)
IT
     107-46-0, Hexamethyldisiloxane
     RL: NUU (Other use, unclassified); USES (Uses)
        (preparation of oil-based ink for electrostatic ink-jet printing)
IT
     2580-56-5, Victoria Blue B
                                  68993-80-6, Alkali Blue
     RL: TEM (Technical or engineered material use); USES (Uses)
        (preparation of oil-based ink for electrostatic ink-jet printing)
IT
     150469-59-3P
                   159967-35-8P, Dodecyl methacrylate-ethyl acrylate-
methyl
                                    159967-36-9P, Methyl acrylate-methyl
     methacrylate block copolymer
     methacrylate-stearyl methacrylate block copolymer
                                                         159967-46-1P,
     Hexadecyl methacrylate-vinyl acetate-vinyl propionate block
copolymer
     159967-47-2P
                   159967-48-3P
                                   159967-49-4P
                                                  159967-50-7P
                                                                 159967-
51-8P
                   159967-53-0P
                                   159967-54-1P
     159967-52-9P
                                                  159967-55-2P
     216988-37-3P, Dodecyl acrylate-4-methylstyrene-octadecenyl
     methacrylate-styrene block copolymer
                                            339569-47-0P
     RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP
     (Properties); TEM (Technical or engineered material use); PREP
     (Preparation); USES (Uses)
        (star; preparation of oil-based ink for electrostatic ink-jet
printing)
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WPINDEX Full-text
DNN N1994-192020
                        DNC C1994-111138
     Colour toner giving fixed images with high smoothness - including
TI
binder
     resin obtd by copolymerising a monomer mixt comprising e.g.
     octadecyl acrylate.
    A89 G08 P84 S06
DC
PA
     (KONS) KONICA CORP
CYC 1
PΙ
    JP 06175394
                 A 19940624 (199430)*
                                              12p
    JP 06175394 A JP 1992-351606 19921209
ADT
PRAI JP 1992-351606
                      19921209
     1994-243398 [30]
                        WPINDEX Full-text
AN
AB
     JP 06175394 A UPAB: 19940914
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1994-243398 [30]

AN

In the toner containing binder resin(s) and colourant(s), the binder resin is prepared by copolymerising a monomer mixture comprising 2-40 mol.% of monomer(s) of formula (I) and one or a mixt of styrene, acrylic ester and methacrylic ester type monomers. The binder resin has a softening pt. (Tsp) of 90-115 deg. C and a glass transition pt. (Tg) of 50-65 deg. C meeting the following conditions. In (I), R1 = H or CH3; and R2 = 8-18C, opt. substd. alkyl or alkenyl.

(I) include octyl, dodecyl, hexadecyl and octadecyl methacrylate, octyl, nonyl tetradecyl and octadecyl acrylate, partially halogenated prods. of the (meth)acrylic esters , dodecenyl methacrylate and dodecenyl acrylate.

USE/ADVANTAGE - The toner has high strength and hardness, high developing and transferring performance, good cleaning property and reduced dependence of charging upon environmental conditions offering stable colour fixed images over a long period. Dwg.1/1